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**ABSTRACT OF THE DISCLOSURE**

A gas generator system is provided wherein supply sources for halogenated gases, including pure molecular halogens, are connected into a gas reaction chamber, or chamber system, to enable generation of a predetermined gas for localized use in a subsequent process. The reaction chamber has a valved outlet for direct supply of the generated gas to a single or multiple chamber processing tool or process chamber. Thus it is possible, for example, to provide for the localized generation of reactive process gases.